

October 20, 2014

5*

6*

Starten:

6, 7, 8 → 2
4, 5 → 1



Compute each

1. $\frac{2}{3} + \frac{-1}{4} =$

$$\begin{array}{r} \frac{2}{3} + \frac{-1}{4} = \\ + \frac{2 \cdot 4}{3 \cdot 4} + \frac{-1 \cdot 3}{4 \cdot 3} \\ \frac{8}{12} + \frac{-3}{12} \\ \hline \frac{5}{12} \end{array}$$

2. $\frac{-4}{5} + \frac{1}{2} =$

$$\begin{array}{r} \frac{-4}{5} + \frac{1}{2} = \\ + \frac{-4 \cdot 2}{5 \cdot 2} + \frac{1 \cdot 5}{2 \cdot 5} \\ \frac{-8}{10} + \frac{5}{10} \\ \hline \frac{-3}{10} \end{array}$$

3. $\frac{-1}{5} + \frac{-2}{3} =$

$$\begin{array}{r} \frac{-1}{5} + \frac{-2}{3} = \\ + \frac{-1 \cdot 3}{5 \cdot 3} + \frac{-2 \cdot 5}{3 \cdot 5} \\ \frac{-3}{15} + \frac{-10}{15} \\ \hline \frac{-13}{15} \end{array}$$

4. $\frac{-1}{8} + \frac{5}{6} =$

$$\begin{array}{r} \frac{-1}{8} + \frac{5}{6} = \\ + \frac{-1 \cdot 3}{8 \cdot 3} + \frac{5 \cdot 4}{6 \cdot 4} \\ \frac{-3}{24} + \frac{20}{24} \\ \hline \frac{17}{24} \end{array}$$

10/20 Adding Rational Numbers - Mixed Numbers

What needs to be done when adding or subtracting fractions? *get a common denominator* 

$$5\frac{1}{4} + \left(+1\frac{1}{5}\right)$$

Change-change

$$\begin{array}{r} + 5\frac{1}{4} \quad \frac{5}{20} \\ + 1\frac{1}{5} \quad \frac{4}{20} \\ \hline 6\frac{9}{20} \end{array}$$

$$\left(-2\frac{1}{2}\right) + 3\frac{1}{6}$$

Change-change

$$\begin{array}{r} -3\frac{1}{6} \quad \frac{1}{6} \\ -2\frac{13}{23} \quad \frac{3}{6} \\ \hline -5\frac{4}{6} \\ -5\frac{2}{3} \end{array}$$


$$\left(-2\frac{1}{6}\right) + 1\frac{1}{4}$$

$$\begin{array}{r} -2\frac{1}{6} \quad \frac{2}{12} \\ -1\frac{1}{4} \quad \frac{3}{12} \\ \hline -3\frac{5}{12} \end{array}$$

$$\left(-2\frac{1}{3}\right) + \left(-1\frac{4}{5}\right)$$

$$\begin{array}{r}
 -2\frac{1}{3} \quad \frac{5}{15} \\
 -1\frac{4}{5} \quad \frac{12}{15} \\
 + \\
 \hline
 -3\frac{17}{15} \\
 -1\frac{2}{15} \\
 \hline
 -4\frac{2}{15}
 \end{array}$$

$\frac{15}{15} = 1$
 $\frac{17}{15} - 1 = \frac{2}{15}$



$$2\frac{1}{6} + \left(+3\frac{7}{8}\right)$$

$$\begin{array}{r}
 3\frac{7}{8} \quad \frac{21}{24} \\
 2\frac{1}{6} \quad \frac{4}{24} \\
 \hline
 5\frac{25}{24} \\
 + 1\frac{1}{24} \\
 \hline
 6\frac{1}{24}
 \end{array}$$

$24 \overline{) 25} \quad 1$
 $\underline{-24}$
 1

$$\left(-2\frac{1}{2}\right) + \left(-1\frac{3}{4}\right)$$

$$\begin{array}{r} -2\frac{1}{2} \quad \frac{2}{4} \\ + -1\frac{3}{4} \quad \frac{3}{4} \\ \hline \end{array}$$

$$-3\frac{\cancel{5}}{4}$$

$$+ \frac{1}{4}$$

$$\textcircled{-4\frac{1}{4}}$$

$$\left(-1\frac{2}{5}\right) + \left(-4\frac{2}{3}\right)$$

$$\begin{array}{r} -4\frac{2}{3} \quad \frac{10}{15} \\ + -1\frac{2}{5} \quad \frac{6}{15} \\ \hline \end{array}$$

$$-5\frac{\cancel{16}}{15}$$

$$- \frac{1}{15}$$

$$\textcircled{-6\frac{1}{15}}$$



Homework

Lilac WS5

Due Tuesday

